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A 11.

DIRECTION
TO THE
HVSBANDMAN
IN A NEW, CHEAPE, AND
Easie way of Fertiling, and Inriching Areable Grounds, by a mixture of certaine Native Materialls, in small quantities with the Seed to sow, and strowing the same vpon the Ground sowed.

VVherein is declared the Ordering and Preparation of the Materialls, the manner and proportion of mingling them with the Seed, and strowing them upon the Ground:

With sundrie other particulars tending to a full and plaine Instruction of such as shall desire to make use thereof.

The abundance of the Earth is over all: the King also consisteth by the field that is tilled. Eccles. 5.8.

LONDON,
Printed by *Augustine Mathewes.* 1634.

BIBLIOTHECA · BODLEIANA

TO MY VVORTHY-HONEST FRIEND, Mr. BENEDICT WEBBE, THAT TRVE PATRIOT.

SIR,

THere bee two things neceſſarie for this life, *Foode*, and *Raiment*. For *Raymen* you have much travailed to the publike good, by adding to our *Olde Draperies*, the making of *Perpetuanaes*, *Spaniſh Cloathes*, *&c.* And laſtly, by bringing *Rape Oyle* to the uſe of Cloathing: whereby you have exceedingly well deſerved of the Common-wealth. For *Food*, that other and greater neceſſary, *The Newe Invention for Fertiling and Inriching of Areable Grounds*, the Argument of the enſuing Treatiſe, muſt acknowledge you as the *firſt Author*; So to have beene by your ſelfe, and others by you directed, the prime *Experimentors* of the certaintie and realitie thereof: Then which, I

ſcarſely know, whether any thing hath bene Invented of more great and generall uſe. Yet have you not ſo buſied your ſelfe about many things with *Martha*, as to neglect that one neceſſary of neceſſaries, *Maries* good part, which hath the bleſsing of both lives: which your often praying, frequent hearing, much reading, and meditating of the beſt things, well teſtifie: But hereof enough. This *Booke of Direction*, being your owne, and for the maine, framed out of your tryed directions, deſires to paſſe into the world underthe protection of your credit, and name: Vntill by approved experience it ſhall have gained credit unto it ſelfe, and returned credit unto you; meane while, it ſhall reſt contented with that olde *Motto*:

Trie, and Truſt.

A DIRECTION TO THE Husbandman, in a newe, cheape, and easie way of Fertiling and Inriching Areable Grounds, &c.

Whereas the Kings Majestie, vpon the humble Petition of Charles Mowet, Edward Keeling, *and* Nathanael Waterhouse *Gent' on the behalfe of themselues, and partners, by His Letters Patents vnder the Great Seale of England, bearing date at* Westminster *the first day of* March, *in the ninth yeare of his Raigne, of his especiall grace, certaine knowledge, and meere motion, Hath given, and granted for him, his Heires, and Successors, vnto the said* Charles Mowet, Edward Keeling, *and* Nathanael

thanael Waterhouſe, *full and free Libertie, Licence, Power, and Authoritie, that they, and the Survivor and Survivors of them, their and every of their Executors, Adminiſtrators, and Aſſignes, by themſelves, and their Deputies, Servants, Factors, Workemen or Agents, and none other, ſhould and might at all and every time and times hereafter from time to time, during the Terme of Foureteene Yeares next enſuing the Date of the ſaid Letters Patents, uſe, excerciſe, practiſe and put in uſe, within His Kingdomes of* England, Ireland, *and* Dominion of Wales, *at every of their wills, and pleaſures, the Miſterie, Art, way and meanes, of fertiling and inriching of Areable Grounds, by a mixture in a ſmale quantitie, of certaine native Materialls with the Seed; farther ſignifying that His will and pleaſure was, and by the ſaid Letters Patents, of His more eſpeciall grace, certain knowledge, and meere motion, for Him, his Heires and Succeſſors, ſtraitly charging and inhibiting all and every other Perſon & Perſons whatſoever, of what Eſtate, Degree, or Condition, he or they, or any of them be, that none of them, other then the ſaid Patentees, and the Survivor and Survivors of them, their and every of their Executors and Adminiſtrators,*

ſtrators, Subſtitutes, Deputies, Workemen, or Aſſignes, or any of them, doe or ſhould, during the ſaid Terme of Fourteene yeares, uſe, or practiſe, directly or indirectly the ſaid Art, way or meanes for fertiling and inriching of Areable Grounds, without the Licence, Conſent, and agreement of them the ſaid Patentees, their Executors, Adminiſtrators, or Aſſignes, or ſome, or one of them, firſt had and obtained; And hath by the ſaid Letters Patents for Him, his Heires, and Succeſſors, willed and commanded all and ſinguler Majors, Sheriffes, Iuſtices of Peace, Bayliffes, Conſtables, Headboroughes, and other Miniſters and Subiects of Him, his Heires and Succeſſors, that they and every of them, be from time to time during the terme aforeſaid, helping and aſſiſting to the ſaid Patentees, the Survivor and Survivors of them, their and every of their Executors, Adminiſtrators, Deputies, and Aſſignes, in all things in and about the accompliſhment of His pleaſure therein declared, and in the exerciſe and execution of the ſame: And that they nor any of them doe at any time hinder, moleſt, or interrupt the ſaid Patentees, or the Survivor or Survivors of them, their or any of their Executors, Adminiſtrators, De-

puties, or Aſsignes, or any of them, in any wiſe concerning the Premiſes, as they tender His pleaſure, and would avoid the contrary at their peril, as in and by the ſaid Letters Patents more at large appeareth.

In which Letters Pattents, the particuler naming of the ſaid Materialls, the Preparations of them, the proportions, and manner of mixture, and application of them, aſwell to the Seed, as to the Ground, and many other incidents, were wittingly omitted, as reſerved to the enſuing diſcourſe, purpoſely intended for a full Direction of the Husbandman in the uſe, exerciſe, and practiſe of the ſaid new Invention.

Wherin although the Compoſition, hereafter deſcribed conſiſt of ingredients, endowed with qualities ſo ſpecificall, and powerfull, in the fruitfulling and inriching of Areable Grounds; and the manner of application therof both to the Seed, and Ground, ſo proper for the ende aymed at; as it might well hope upon the very reading of the ſame, to gaine beliefe amongſt the ingenious and judicious

Husband-

Husbandmen, without further proofe; yet becauſe many things in diſcourſe, and reaſon ſo concluding, as convince moſt underſtandings, fall out oftentmes to faile in the practiſe, it deſireth no further faith or acceptance from any, then ſuch, as a Demonſtrative, experimented ſucceſſefull truth ſhall wreſt from the moſt incredulous.

Which experiment that it may bee made without any the leaſt error or miſtaking, the Inſtructions following are ſet downe in ſuch plaineneſſe, and ſo diſtinctly in the materials, preparation, proportion, applycation, and all other requiſite particulers, as none (not too careleſly negligent) can poſsibly erre.

FIrſt then, the Soyle being ſuppo'ed to bee ſuch, as with the vſuall Husbandries of Dunging, Marleing, Lyming, Foulding, &c. will returne in ſome good meaſure in his ſeaſon a multiplyed Cropp of the Graine therein ſowed; you muſt give unto it the ordinary Tillage, according to the Nature of the Soile, and uſe of the Countrey.

Your Seed being *Wheat, Rye, Barley*, or of what other ſort ſoever, muſt be well choſen, and cleanſed from light Corne, and whatſoeſe mixture of any Damagefull thing, with an abatement of the fourth part of the Seed, you uſually gave in your former courſes of Husbandry, and yet you ſhall (by the bleſſing of God) finde your Corne as thicke and ſtrong, as if you had given the whole proportion of Seed.

Vpon every Buſhell of *Winchester* meaſure, containing eight Gallons, being laid upon a Table or Courſe ſheete Bedwiſe, powre (as on a Bed of Wooll) ſo much of Rapeſeede Oyle, as will well moyſten the ſaid Seede, ſtirring and toſsing the Corne ſo oyled to and fro, untill it bee well moiſtned and made fit to receiue and joyne it ſelfe with any drie matterialls, which ſhal be added therto, in Flower or powders.

A Buſhell of ſeede will take about a quart of Oyle.

Then

Then take one Quart of the Flower of Beanes, being firſt Maulted. One quart of the powder of Rapeſeede Cakes after the Oyle is preſſed out; One quart of burnt Lyme new from the Kilne, quenched with Vrine, and ſifted; or ſo much of each of them in equall parts, as may well cover and encompaſſe the ſaid Seede.

The Flower and Powders aforeſaid muſt bee very well ſtirred and mingled together one with another, which done, ſtrow them upon your Buſhell of Oyled Corne, tumbling and toſsing them and the graine one with another, or ſhaking them togeather upon the ſaide courſe ſheet, untill the Corne have licked upp, and united it ſelfe with the Flower and Powders, which will ſoone bee done.

Your Seede thus ordered, and (as it were) clothed with the Flower and Powders aforeſaid, may preſently bee ſowed, or kept unſowed, Ten, Fifteene, or Twenty dayes,

before it will growe, or take other harme, as hath beene tryed.

In, or after your ſowing, if your ground be poore, and you have plenty of the ſaid drie Materialls, you may ſtrowe or throwe upon one Acre of Ground about two Buſhels more or leſſe of the ſaid Flower and Powders, as you conceive your Ground better or worſe.

This mixture aforeſaid, imployed as here deſcribed with the Seede, and upon the Ground, will really alone performe the intention without any further addition, as hath beene often experienced.

But that the Husbandman may bee fully furniſhed with all ſuch experimented helpes, as tend to this end. And becauſe, for the preſent, there may bee in ſome places want of the ſaid Materialls, or ſome of them; let him further know, that in lieu of them (though not ſo powerfull) may be uſed the materialls following.

As

As in want of the Oyle, you may uſe ſo much of the ſtrongeſt Woort.

In ſtead of the Flower of Beanes, ſo much of the Flower of Barley Mault ground very ſmall; and for your Powder of Rape Oyle Cakes, as much ~~of the powder of Pigeons dung dried and ſifted, or~~ of the powder of Sheepes Turdles drie: or ſo much of your Kilp Aſhes, or Berillia, where it may bee had; or ſo much of Pot Aſhes; or where Woad is ſet for dying of Wooll, ſo much of Woad paſt drie and brought into Powder: theſe in equall proportions mingled all or ſome of them, with all or ſome of the former firſt deſcribed Flower and Powders, may be ſucceſſfully uſed, either in the dreſsing of the Oyled Seede, or in the ſtrowing the ground ſowed therewith, as aforeſaid. But the Sheepes Turdles muſt be thus prepared.

Take ſo much of the ſaid Turdles as you purpoſe to uſe, and lay them bedwiſe in ſuch a thickeneſſe, as being moiſtened lightly with Vrine, it may gather a heate, and grow inclinable

nable to Putrefaction or Rottenneſſe; and ſo let it reſt, untill it become ſomewhat drie. Then with a Rake, or ſome other fitting inſtrument, ſtirre and toſſe your bedd well, and being againe layd Bedwiſe, moyſten it with Vrine as before, and let it ſo reſt untill it grow againe drie: then ſtirre and toſſe it againe, and lay it as before Bedwiſe, and moiſten it with Vrine. So continuing from time to time this courſe of moiſtning, drying, and ſtirring the ſaid Bedd, untill the Turdles bee throughly putrifyed and rotten; ſo as they fall into powder: then let them drie, and take the powder for your uſe. The elder and more rotten the Turdles bee, the more effectually they worke.

So much of the aforeſaid Materialls as bee neceſſary, are every where to be had, though in ſome parts further of, and dearer then in other.

That which may ſeeme moſt difficult to be got in ſome places, is the Rape Oyle and Rape Cakes, which yet by the late diſperſing

ſing of that Husbandry into moſt Shires, is not hard to bee had. But if it be found any where lacking, any wealthy Husbandman may (hiring of a ſervant from ſome of the Oyle Workes) Convert ſome of his Greene-ſword to that uſe, and ſo furniſh himſelfe, and neighbours aboundantly, and cheape, and to his owne very great profit; and in the meane time, ſome other of the former Ingredients may be uſed in ſtead thereof.

And this may ſuffice for Direction.

The skilfull Husbandman by what hath beene ſaid, will take occaſion as experience ſhall guide him, to fit and accommodate things, as hee ſhall finde moſt behoofefull, though now and then varying from what is formerly preſcribed.

There bee ſundrie other Materialls which are knowne to be of great force in the fruitfulling of Areable Grounds; and might bee eaſily drawne to this imployment, whereunto the former Flowers, Aſhes, and Powders bee applyed. But becauſe theſe are to

be had but in ſmall proportions, and but in fewe places, they are purpoſely omitted, as not anſwering the vniverſalitie of this Intention.

There be other moyſtures to ſupply that of Rape Oyle, or of the Woort, for moyſtening the Seede, and other Aſhes and Powders for cloathing the Seede, and ſtrowing upon the Ground, which prepared according to Art, are upon no light proſumptions, conceived as powerfull in fruitfulling and inriching Areable Grounds, as the other formerly named: But becauſe as yet they have not beene ſo farre, and fully experimented, as to be offered as a certaintie, their mention is now forborne; but ſhall (God willing) upon ſome further tryalls, be communicated for the publicke good.

Although by that which hath before been ſaid by way of Direction in this new Courſe of Manuring, the Husbandman cannot but obſerve many benefits ariſing thereby, above thoſe growing by the ordinary Tillages vſed;

yet ſhall it not be amiſſe to ſay ſomething in particular of that alſo.

In this way, the trouble of Foulding, the labour of carrying great quantities of Dung, Lyme, Marle, &c. and the ſpreading thereof is ſpared, and the fetching of ſome of them divers myles, and at great prices; Whereas the quantities of theſe Materialls uſed in this way are ſo ſmall, as will coſt little, and ſo light as the carriage will be eaſie, and the applying them to the Seede and ground, askes little more trouble then the very ſowing of the Seede it ſelfe.

The Dunging, Foulding, Marling, Lyming, &c. formerly beſtowed upon the Arable Grounds, may now be converted to the fruitfulling of the Greeneſword.

A fourth part of your Seed is ſaved, which will neere, if not wholly, countervaile the charge of the Materialls.

The Flowers, Aſhes, and Powders encom-

paſsing the Seed, moiſtened as aforeſaid, defendeth it from the devouring of Fowle, Miſe, Wormes, &c.

The poorer ſort, who want Cattell to breed, and money to buy Soyle, ſhall in this courſe, with little or no charge ſupply that want.

In this husbandrie, you may Sow the ſame Ground every yeare, and ſo ſpare the more to Meadow and Paſture.

Beſides the generall good to the Common wealth, it will better all Tythes of Graine, to the benefit of Incumbents, and others to whom the Tythes be due.

A fewe yeares experience will (no doubt) bring to light many other Commodities ariſing by this invention, not now thought of, but for the preſent theſe may ſerve.

For Concluſion, when you have carefully and exactly followed the Directions afore-

aforesaid, and (it may be) in some things bettered them, take heed you doe not so depend upon these outward meanes, though never so good, as to forget the Cause of Causes.

Sacrifice not unto your Nett, nor burne Incense unto your Dragge, &c. Habak. 1.16.

Trust not in your way. Hosea 10, 13.

But looke up unto God, from whom all good, for a blessing upon your Labours; and know that rebelling against him, all things will rebell against you

Heaven will bee as Iron, and your Earth as Brasse. Levit.26.19. Deut.28.23.

The Raine will be made to your Land as Powder and Dust. Deut.28.14.

The Seed shall rott under their Clodds, the Garners lye desolate, &c. Ioel 1.17.

He shall give your increase to the Caterpiller, and your labour to the Locust. Psal.78.46.

Whereas if you obey, all the good blessings of God shall come upon you, and overtake you.

Hee

He will give you the first and the later raine in due season, and the Land shall yeeld her Increase. Levit. 26.3.4. Deut.11.14. & 28.12.

He will heare the Heavens, and they shall heare the Earth, and the Earth shall heare the Corne. Hosea 2.21.22.

You shall be blessed in the Field, blessed in the fruite of your Ground; blessed in your basket, and in your store. Deut: 28.3.4.5.

He shall restore to you the yeares that the Locust hath eaten, the Canker worme, and the Caterpiller, and the Palmerworme, his great Army which he sent amongst you. Ioel 2.25.

Breake up your Fallow Grounds, and Sowe not among Thornes; Sowe to your selues in Righteousnesse: Reape in Mercie: For it is time to seeke the Lord, till he come and raine Righteousnesse upon you. Ier. 4.3. Hosea 10.12.

FINIS.